

**TRACK IDENTIFICATION CODEWORDS HAVING MULTIPLE BIT ERROR  
CORRECTION CAPABILITY AND GENERALIZED GRAY CODE PROPERTY**

**ABSTRACT**

1           The present invention may be embodied in a disk drive comprising a rotating magnetic  
2 media having tracks identified by binary codewords, and in a related method. Each track  
3 codeword for a particular track within a contiguous band of tracks differs from a track codeword  
4 for an adjacent track within the contiguous band of tracks by a defined number of bits, and  
5 differs from a track codeword for a nonadjacent track within the contiguous band of tracks by at  
6 least the defined number of bits. The defined number N of bits is greater than four such that at  
7 least two bit errors may be corrected when reading a track codeword.